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	Application No.	Applicant(s)	
Notice of Allowability	10/535,704	TAKAHASHI ET AL.	
	Examiner	Art Unit	
	Sung H. Pak	2874	
The MAILING DATE of this communication ap All claims being allowable, PROSECUTION ON THE MERITS I herewith (or previously mailed), a Notice of Allowance (PTOL-8 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3	pears on the cover sheet with S (OR REMAINS) CLOSED in 5) or other appropriate community RIGHTS. This application is s	nthis application. If not include unication will be mailed in due o	d course. THIS
1. This communication is responsive to			
2. X The allowed claim(s) is/are 1-17.			
 3. Acknowledgment is made of a claim for foreign priority a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 		or (f).	
2. Certified copies of the priority documents have been received in Application No			
3. ☑ Copies of the certified copies of the priority documents have been received in this national stage application from the			
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.			
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.			
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.			
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached			
1) hereto or 2) to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date			
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).			
 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. 			
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Attachment(s)	5 □ Notice of In	formal Patent Application	
 Notice of References Cited (PTO-892) Dotice of Draftperson's Patent Drawing Review (PTO-948) 	-	ummary (PTO-413),	
	Paper No.	/Mail Date	
 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 65/19 	7. 🔲 Examiner's	Amendment/Comment	
4. Examiner's Comment Regarding Requirement for Depos	it 8. 🛭 Examiner's	Statement of Reasons for Allo	wance
of Biological Material	9. 🗌 Other		
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DETAILED ACTION

Information Disclosure Statement

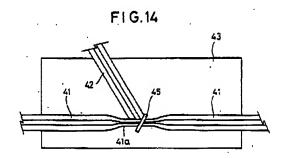
Information disclosure statements filed 5/19/2005 and 6/30/2006 have been considered.

Allowable Subject Matter

Claims 1-17 are allowed.

The following is an examiner's statement of reasons for allowance:

Optical waveguide couplers are well known and common in the art. Optical waveguide couplers having a groove for disposing thin film filters or reflectors are also well known in the art. One of the most relevant prior art of record, Yanagawa et al. (U.S. Pat. 4,958,897) teaches such optical waveguide coupler having a first and a second optical waveguide core, wherein the second optical waveguide core couples to the first optical core at the side face of the first waveguide core, similar to that claimed in the present application (see Fig. 14 of Yanagawa reproduced below).



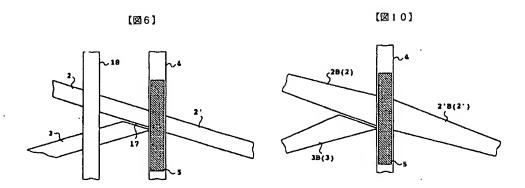
However, Yanagawa et al. <u>do not teach a "gap"</u> formed between the first and second cores in adjacency to the intersecting region between the axial extensions of the first and second waveguide cores as required by the claimed invention of the present application. Further,

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Yanagawa et al. do not teach the width of the <u>first as well as the second</u> optical waveguide core being narrower in the vicinity of the intersecting region between the axial extensions of the first and second cores.

Another relevant prior art, JP08-190026 (JP'026) reference does disclose a second waveguide core coupling to a first waveguide core at a side face of the first waveguide core, wherein there is a "gap" between the first and second waveguide cores in adjacency to the intersecting region between the axial extensions of the first and second waveguide cores (see Fig. 6 and Fig 10 reproduced below).



However, JP'206 does not disclose the width of the first and second optical waveguide cores that are narrower in the vicinity of the intersecting region between the axial extensions of the first and second waveguide cores, in the manner claimed in the instant application.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sung H. Pak whose telephone number is (571) 272-2353. The examiner can normally be reached on Monday- Friday, 9AM-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rodney Bovernick can be reached on (571)272-2344. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Sung Pak/ Sung H. Pak Primary Patent Examiner Art Unit 2874